MA 114 - Reading Assignment 13 - Section 3.3 - Spring 2008

And the next American Idol is _____!

1. A rational function is a function of the form _____, where p and q are _____ and q is not the _____ _____.
2. **True** or **False**: All polynomials are rational functions.
3. **True** or **False**: A rational function can cross a vertical asymptote.
4. **True** or **False**: A rational function can cross a horizontal asymptote.
5. **True** or **False**: A rational function can cross an oblique asymptote.
6. What does it mean for a rational function to be proper?

7. What are the two cases when a rational function has a horizontal asymptote? What are the asymptotes in these cases?

8. When does a rational function have an oblique asymptote?

9. **True** or **False**: A rational function can have two or more horizontal asymptotes.